Civil Air Patrol

Cessna-182T Nav III - N355CP

Preflight Cabin

 Pitot Tube CoverRemove. Check for
blockage.
2. Hobbs Time Check.
3. POH Accessible to Pilot.
4. Garmin G1000™ Cockpit Reference
Guide Accessible to Pilot.

5.	Weight & Balance.	Checked.
6.	Parking Brake	Set.

7. Control Wheel Lock Remove.

WARNING

When the master switch is on. using an external power source, or manually rotating the propeller, treat the propeller as if the magnetos switch were on. Do not stand, nor allow anyone else to stand, within the arc of the propeller since a loose or broken wire, or a component malfunction could cause the engine to start.

8. MAGNETOS Switch.....Off.

9. AVN Switch (BUS 1&2)	Off.
10. MASTER Switch (BUS 1&2)C)n.
11. Primary Flt Display Verify C)n.
12. FUEL QTY (L&R)Check/Reset U	Jsed
13. Tach Time Che	ck.
14. LOW FUEL L & R Annunciators\	/erif
Off.	
15. OIL PRESS Annunciator Verify C)n.
16. LOW VOLTS Annunciator Verify	On.
17. LOW VACUUM Annunciator	
Verify C)n.
18. AVIONICS Switch (BUS 1))n.
19. Forward Avionics Fan. Check Au	dibly

19.	Forward Avionics Fan.Check Audibly	
	for Operation.	
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20.	AVIONICS	Switch	(BUS 1))Off.
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			(,
21.	AVIONICS	Switch	(BUS 2	2)On.

Aft Avionics FanCheck Audibly for
Operation.

23. AVIONICS Switch (BUS 2)C

Z4.	PITOT HEAT	SwitchOn/	Check.
25	Stall Warning	System	Check

20.	Stall Warring	System	Checi
26	PITOT HEAT	Switch	Of

27.	MAST	ΓER	Switch	(ALT	& BAT) . Off
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28.	Trim	Controls	. Takeoff	position

_		_	_	-	_			
29.	FUEL	_ :	SE	LE	CT	OR	Valve	Both

- 30. ALT STATIC AIR Valve...... Off.
- 31. Fire Extinguisher......Verify green.

Preflight Empennage

- 1. Baggage Compartment Door CHECK latched, lock with key.
- 2. Rudder Gust LockRemove. 3. Tail Tie-Down Disconnect.
- 4. Control Surfaces......Check.
- 5. Trim Tab Check for security.
- 6. AntennasCheck.

Preflight Right Wing

1.	Aileron	Check.
2.	Flap	Check.
3.	Wing Tie Down	Disconnect.

- 4. Wing Tank Vent Opening Check.
- 5. Main Wheel Tire Check Condition

See Fuel Contamination Warning in the POH.

- 6. Fuel Tank Drain Valves. ... Drain (5).
- 7. Fuel QuantityCheck Visually.
- 8. Fuel Filler Cap Secure and Vent Unobstructed.

Nose

- 1. Static Source Opening......Check.
- fy 2. Fuel Drains Underside...... Drain(3).

See Fuel Contamination Warning in the POH.

3.	Engine Cooling Outlets	Clear.
4.	Propeller & Spinner	Check.
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- 5. Air FilterCheck. Nosewheel Strut and Tire Check.
- 7. Engine Oil DipstickCheck oil level and secure. (4 gt min., 8 gt for extended
- 8. Static Source Opening......Check.

Preflight Left Wing

1. Main Wheel Tire ... Check Condition.

See Fuel Contamination Warning in the POH.

- 2. Fuel Tank Drain Valves.... Drain (5).
- 3. Fuel Quantity......Visually Check.
- 4. Fuel Filler Cap...... Secure & Vent unobstructed.

Preflight Left Wing Leading Edge

- 1. Fuel Tank Vent Opening.. Check for blockage.
- 2. Stall Warning Opening Check for blockage.
- 3. Wing Tie Down......Disconnect.
- 4. Landing/Taxi light(s)...... Check.

Preflight Left Wing Trailing Edge

1.	Left Aileron	Check.
2.	Left Flap	Check.

PASSENGER BRIEF

- 1. Seat Belts / Shoulder Harness
- 2. Personal Electronic Devices off
- 3. Air Vents / Comfort
- 4. Fire Extinguisher Location / Operation
- 5. Emergency Procedures & Exits

MISSION BRIEF

- 1. Mission Objective
- 2. Destination, WX, Route, Alt, ETE
- 3. NOTAMS
- Crew Coordination & CRM
- 5. Sterile Cockpit Procedures
- Cockpit Lavout
- 7. Intercom & Radio Usage
- 8. Seats. Seatbelts. Doors
- 9. Emergency Action & Equipment

Before Starting Engine

- Preflight Inspection...... Complete.
- Passenger Brief Complete.
- 3. Seats / Belts / Shoulder HarnessAdjust and lock, check initial reel (front & rear).
- 4. Brakes.....Test & Set.
- Circuit Breakers Check In. Electrical EquipmentOff.

The avionics switch (Bus 1 and 2) must be off during engine start

- 7. Avionics Switch (Bus 1&2)...... Off.
- 8. Cowl Flaps......Open.
- 9. Fuel Selector.....Both.

Starting Engine (Using Battery)

- 1. Throttle Control...... Open ¼ Inch.
- 2. Propeller Control......High RPM.
- 3. Mixture ControlIdle Cut Off.
- 4. Stby Batt Switch......Test/ (Hold for 20 seconds, verify that green test lamp does not go out), then ARM
- 5. Engine Indicating System Check parameters, (verify no red X's through ENGINE page indicators).
- 6. Bus E Volts Verify 24 volts min.
- 7. M Bus Volts..... Verify 0 volts.
- 8. Batt S Amps Verify Discharge (neg).
- 9. Stby Batt Annunciator Verify On.
- 10. Propeller Area Clear.
- 11. Master Switch (Alt and Bat)..... On. Note

If engine is warm, omit priming procedure of steps 12, 13 and 14 below.

- 12. Fuel Pump SwitchOn.
- 13. Mixture Control.. Advance to Full Rich, wait until fuel flow indication is stable, then return to idle cut off position.
- 14. Fuel Pump Switch Off.
- 15. Magnetos Switch..... Start.
- 16. Mixture Control.. Advance to full rich when engine starts.

If the engine floods, place the mixture control in the Idle Cut Off position, open the throttle control 1/2 to full, and engage the starter motor (Start). When the engine starts, advance the mixture control to the Full Rich position and retard the throttle control promptly.

- 17. Oil PressureCheck.
- 18. Amps (M Batt & Batt S)Check charge (positive).
- 19. Low Volts Annunciator ... Verify Off.
- 20. Beacon Light Switch..... On as req.
- 21. Nav Lights Switch...... On as reg. 22. Avionics Switch (Bus1&2) On.
- 23. Check MFD for correct A/C type and Jeppesen expiration dates, then press ENT.
- 24. ATIS / AWOS......Copy.

Caution (See Complete Caution in POH)

1. Mixture ControlLean as required. 2. Brakes	18. Throttle Control	5. Fuel Selector	7. Braking
 16. Throttle Control1800 RPM. Magnetos Switch. Check (RPM drop 175 or 50 differential 		 Propeller Control High RPM. Landing & Taxi Light Switches On. Autopilot Off. 	Operating Handbook and applicable STCs. Reviewed by:
between magnetos.) Prop ControlCycle from high to low RPM, return to high RPM (full in). VAC IndicatorsCheck. Engine IndicatorsCheck. Ammeters & Voltmeters.Check. AnnunciatorsCheck none illuminated.	6. Wing Flaps . Retract at safe altitude. Normal Climb 1. Airspeed85-95 KIAS. 2. Throttle23 Inches or Full (If less than 23 in. Hg.). 3. Propeller Control2400 RPM. 4. Mixture15 GPH or Full Rich (If less than 15 GPH).	Normal Landing 1. Airspeed 70-80 KIAS (Flaps Up). 2. Wing Flaps	Wing Director of Maintenance Date

EMERGENCY PROCEDURES

C-182T N355CP

Engine Failure During Takeoff
Roll 1. Throttle ControlIdle. 2. BrakesApply. 3. Wing FlapsRetract. 4. Mixture Control Idle Cut-Off. 5. Magnetos SwitchOff. 6. Stby Batt SwitchOff. 7. Master Switch (Alt & Bat). Off.
Engine Failure Immediately After
Takeoff 1. Airspeed
75 KIAS (Flaps Up).
70 KIAS (Flaps Down).
2. Mixture Control Idle Cut-Off.
3. Fuel shutoff valveOff.
4. Magnetos SwitchOff.5. Wing FlapsAs req. (Full
Recommended)
6. Stby Batt SwitchOff.
7. Master Switch (Alt & Bat). Off.
8. Cabin DoorUnlatch.
9. Land Straight Ahead.
Engine Failure During Flight
(Restart Procedures)
1. Airspeed 75 KIAS (best glide speed).
2. Fuel Selector ValveBoth.
3. Fuel Pump SwitchOn
4. MixtureRich
5. Magnetos Switch Both
(or Start if propeller is stopped) Note
If propeller is windmilling, engine will
restart automatically

within a few seconds. If propeller has stopped (possible at low

speeds), turn Magnetos switch to Start, advance throttle slowly from idle, and lean the mixture from full rich, as required to obtain smooth operation.

6. Fuel Pump Switch.....Off Note

If the indicated fuel flow (FFLOW GPH) immediately drops to zero, a sign of failure of the engine-driven fuel pump, return the Fuel Pump switch to the On Position.

Emergency Landing Without Engine Power

- 1. Passenger Seat Back Most Upright Position.
- 2. Seats and Seat Belts .. Secure
- 3. Airspeed

75 KIAS (Flaps Up).

- 4. Mixture Control ... Idle Cut-Off.
- 5. Fuel Selector Valve.....Off.
- 6. Magnetos Switch.....Off.
- 7. Wing Flaps.....As reg. (Full Recommended)
- 8. Stby Batt Switch.....Off.
- 9. Master Switch (Alt & Bat) ... Off (when landing is assured).
- 10. Doors Unlatched Prior To Touchdown.
- 11. Touchdown Slightly Tail Low.
- 12. Brakes Apply Heavily.

Precautionary Landing With Engine Power

- 1. Passenger Seats ... Most Upright Position.
- 2. Seats and Seat Belts Secure.
- 3. Airspeed 75 KIAS. 4. Wing Flaps......20°.

- 5. Selected Field....Fly Over, noting terrain and obstructions, then retract flaps upon reaching a safe altitude and airspeed.
- 6. Avionics Switch (Bus1 & 2)...Off.
- 7. Electrical Equip. Switches.....Off.
- 8. Wing Flaps Full (on final approach).
- 9. Airspeed70 KIAS. 9. Stby Batt SwitchOff.
- 10. Master Switch (Alt and Bat) Off.
- 11. Doors......Unlatch Prior To Touchdown.
- 12. Touchdown.... Slightly Tail Low.
- 13. Mixture Control Idle Cut Off.
- 14. Magnetos SwitchOff.
- 15. Brakes Apply Heavily.

Ditching

- 70 KIAS (Flaps Down). 1. Radio...... Transmit Mayday on 121.5, giving location and intentions and Squawk 7700.
 - 2. Heavy Objects (in baggage area) Secure Or Jettison (if possible).
 - 3. Passenger Seat Backs Most Upright Position.
 - 4. Seats and Seat Belts Secure.
 - 5. Wing Flaps20° to Full.
 - 6. PowerEstablish 300 Ft/Min descent at 65 KIAS.

Note

If no power is available, approach at 70 KIAS with flaps up or at 65 KIAS with 10° of Flaps.

7. Approach

High winds, Heavy Seas Into the Wind.

Light winds, Heavy Swells..... Parallel to Swells.

- 8. Cabin DoorsUnlatch.
- 9. Touchdown......Level Attitude At Established Rate-Of-Descent.

- Face..... Cushion at touchdown with folded coat.
- 11. ELT Activate.
- 12. Airplane...... Evacuate through cabin doors. If necessary, open window and flood cabin to equalize pressure so doors can be opened.
- 13. Life Vests and Raft...... Inflate When Clear Of Airplane.

Fire During Start On Ground

- 1. Magnetos Switch.....Start (continue cranking to start engine). If Engine Starts:
- 2. Power......1700 RPM for a few minutes.
- 3. Engine....Shut Down and inspect for damage.
- If Engine Fails To Start:
- 2. Throttle Control......Full Open.
- 3. Mixture ControlIdle Cut-Off.
- 4. Magnetos Switch.....Start (continue cranking).
- 5. Fuel Selector Valve Push Down and Rotate Off.
- 6. Fuel Pump Switch.....Off. 7. Magnetos Switch.....Off.
- 8. Stby Batt Switch.....Off.
- 9. Master Switch (Alt & Bat) .. Off.
- 10. Engine.....Secure. 11. Parking Brake Release.
- 12. Fire ExtinguisherObtain.
- 13. Airplane..... Evacuate.
- 14. Fire Extinguish using fire extinguisher, wool blanket, or dirt.
- 15. Fire Damage Inspect...

Sanable an port of landing area. Engine Fire in Flight

- 1. Mixture Control....Idle Cut-Off.
- 2. Fuel Selector Valve Push Down and Rotate to Off.
- 3. Fuel Pump Switch.....Off. 4. Stby Batt Switch.....Off.
- 5. Master Switch (Alt & Bat).. Off.
- 6. Cabin Heat and Air..... Off (except overhead vents).
- 8. Forced Landing Execute. Refer to Emergency Landing Without Power.

Electrical Fire in Flight

- Stby Batt Switch......Off.
 Master Switch (Alt & Bat).. Off.
- 3. Vents/Cabin Air/Heat ... Closed.
- 4. Fire Extinguisher..... Activate.
- 5. Avionics Switch (Bus 1 & 2). Off.
- 6. All Other Switches (except magnetos switch) Off.

Warning

After The Fire Extinguisher Has Been Used, Make Sure That The Fire Is Extinguished Before Exterior Air Is Used To Remove Smoke From Cabin.

7. Vents/Cabin Air/Heat...... Open when it is ascertained that fire is completely extinguished.

If fire has been extinguished and electrical power is necessary for continued flight to nearest

- 8. Circuit Breaker..Check for Open circuit(s), do not reset.
- 9. Master Switch (Alt & Bat) On. 10. Avionics Switch (Bus 1)..... On.
- 11. Avionics Switch (Bus 2).....On.

Cabin Fire

- 1. Stby Batt Switch Off.
- 2. Master Switch (Alt & Bat). Off.
- 3. Vents/Cabin Air/Heat ... Closed (to avoid drafts).
- 4. Fire Extinguisher Activate.

See Warning Under Electrical Fire in Flight.

- 5. Vents/Cabin Air/Heat Open when it is sure that fire is completely extinguished.
- 6. Land the airplane as soon as possible to inspect for damage.

Wing Fire

- Land &Taxi Light Switches...Off.
 Nav Light Switch.....Off.
- 3. Anticollision Strobe Light Switch Off.
- 4. Pitot Heat SwitchOff.
 Note

Perform a sideslip to keep the flames away from the fuel tank and cabin. Land as soon as possible using flaps only as required for final approach and touchdown.

High Main Battery Charge Current (M Bat Amps More Than 40)

- 1. Master Switch (ALT)Off.
- 2. Nonessential Elect. Equip. ... Off.
- 3. Avionics Switch (Bus 1&2) ... Off.
- 4. Flight...... Terminate as soon as practical.

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Red X - PFD Airspeed Indicator

- 1. ADC/AHRS Circuit Breakers Check In (ESS Bus and AVN Bus 1). If open, reset (close) circuit breaker. If circuit breaker opens again, do not reset.
- 2. Standby Airspeed Indicator..Use for airspeed information.

Red X - PFD Altitude Indicator

- 1. ADC/AHRS Circuit Breakers... Check In (ESS BUS and AVN Bus 1). If open, reset (close) circuit breaker. If circuit breaker opens again, do not reset.
- 2. Standby Altimeter Check current barometric pressure Set. Use for Altitude Information.

Attitude And Heading Reference System (AHRS) Failure Red X – PFD Attitude Indicator

- 1. ADC/AHRS Circuit Breakers... Check In (ESS BUS and AVN Bus 1).
-). If open, reset (close) circuit breaker. If circuit breaker opens again, do not reset.
- 2. Standby Attitude Indicator ... Use for attitude information.

Red X – Horizontal Situation Indicator (HSI)

- 1. ADC/AHRS Circuit Breakers... Check In (ESS BUS and AVN Bus 1). If open, reset (close) circuit breaker. If circuit breaker opens again, do not reset.
- 2. Non-Stabilized Magnetic Compass Use for heading information.

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PFD1 Cooling or MFD1 Cooling Annunciator(s)

- 1. Cabin Heat......Reduce to min.
- 2. Forward Avionics Fan Check (feel for airflow from screen on glareshield).

If Forward Avionics Fan Has Failed

3. Stby Batt Switch...... Off (unless needed for emergency power).

If PFD1 Cooling or MFD1 Cooling Annunciator Does Not Go Off Within 3 Minutes Or If Both PFD1 Cooling And MFD1 Cooling Annunciators Come On

3. Stby Batt Switch.....Off (Land as soon as practical).

Vacuum System Failure Low Vacuum Annunciator Comes On

Caution

If Vacuum Pointer Is Out Of The Green ARC During Flight Or The Gyro Flag Is Shown On The Standby Attitude Indicator, The Standby Attitude indicator Must Not Be Used For Attitude Information.

1. Vacuum Indicator (VAC)...

Check EIS System page to make sure vacuum pointer is in the green arc limits.

For all other
Emergency/Abnormal
Procedures. See the
POH – Section 3.

Reviewed by:

Wing Director of Maintenance Date: